

**BIMODAL POLYETHYLENE COMPOSITION AND ARTICLES MADE
THEREFROM
ABSTRACT**

[151] The invention relates to a polyethylene composition with a bimodal
5 molecular weight distribution and articles made therefrom, such as high topload blow
moldings and transmission and distribution pipes. The composition comprises a low-
molecular-weight (LMW) ethylene homopolymer component and a homogeneous, high-
molecular-weight (HMW) ethylene interpolymers component, wherein the LMW component
is characterized as having a molecular weight distribution, MWD^L , of less than about 8.
10 The composition is characterized as having a bimodal molecular weight distribution, and a
ductile-brittle transition temperature, T_{db} , of less than -20°C . In some embodiments, the
HMW component is characterized by a reverse comonomer distribution.